

MODUL 6

PRACTICUM

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CLASS : X

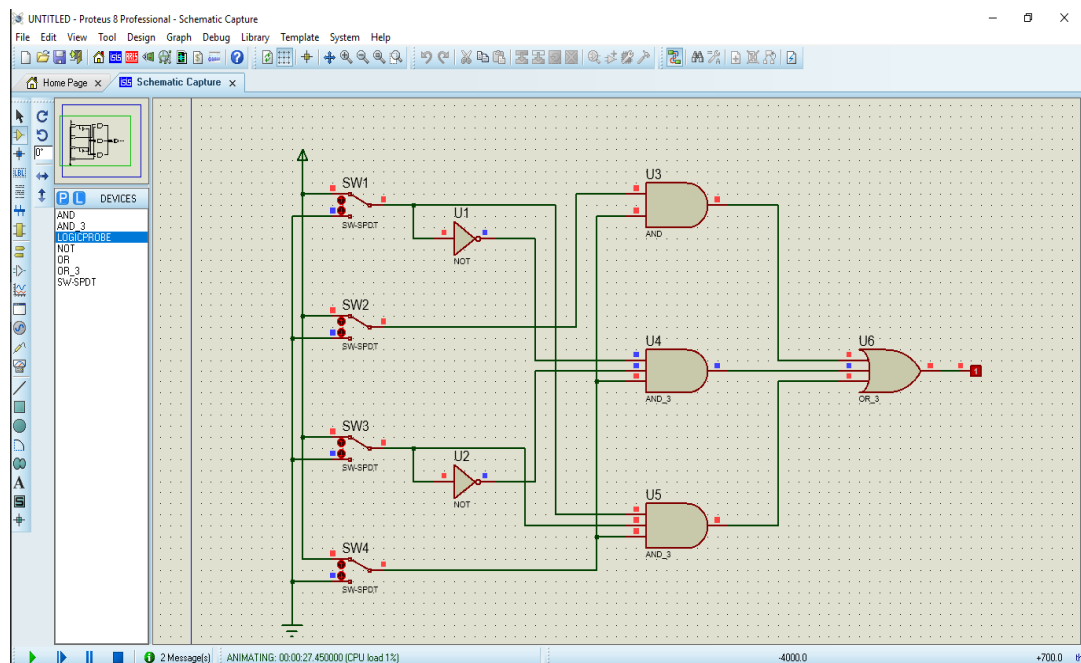
Test 1.

1. Karnaugh Map.

		AB			
		00	01	11	10
CD	00	0	0	0	0
	01	1	1	1	0
	11	0	1	1	1
	10	0	0	0	0

2. $F = (B.D) + (A'.C'.D) + (ACD)$

3. Logic gate from Boolean function.



Test 2.

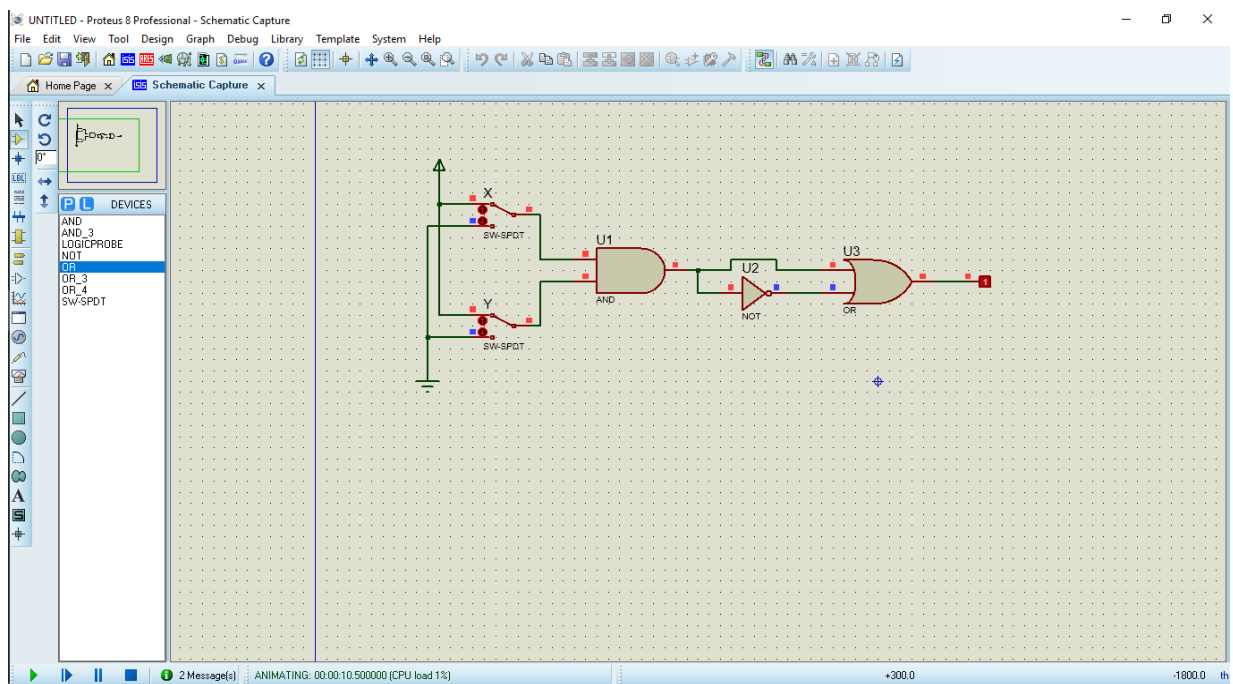
1. Karnaugh Map.

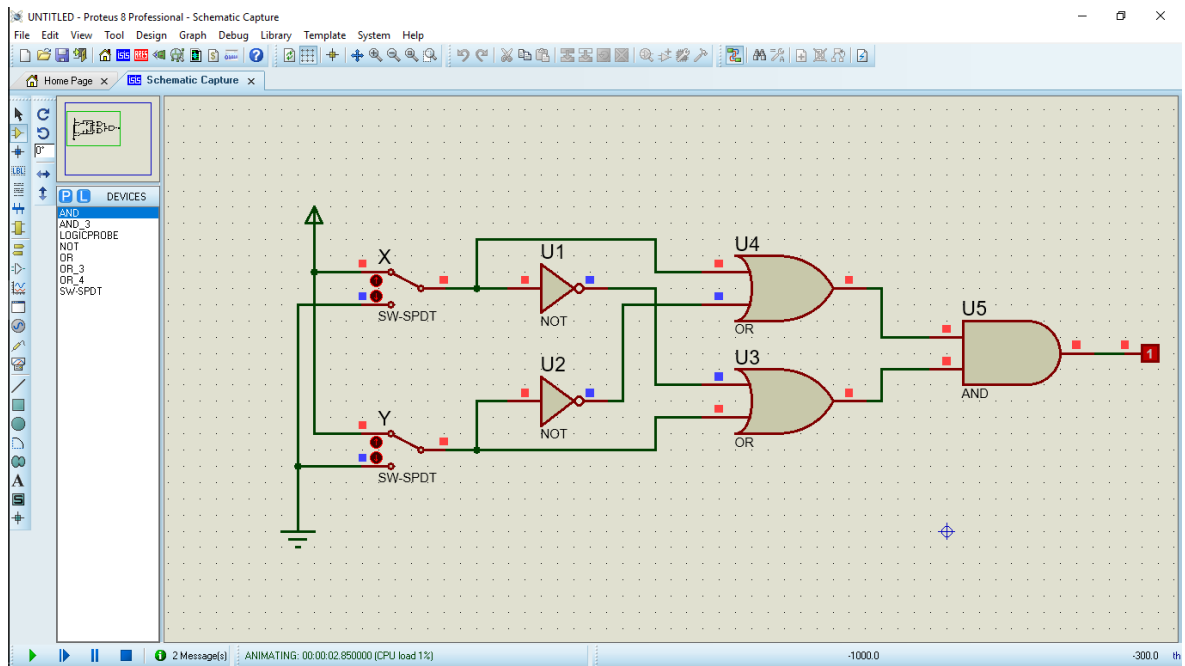
		AB			
		00	01	11	10
CD	00	1	0	0	1
	01	0	1	1	0
	11	0	1	1	0
	10	1	0	0	1

$$2. F = (B.D) + (B'.D')$$

$$F = (B'+D).(B+D')$$

3. Logic gate from Boolean function.



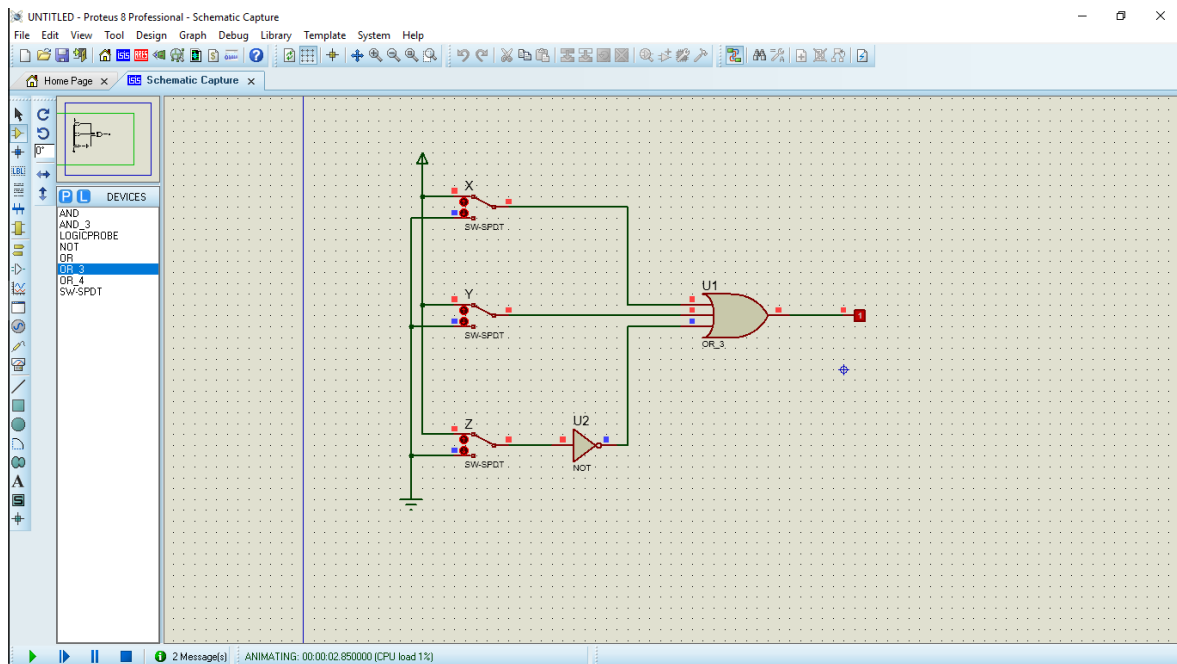


Test 3.

1. Boolean function : $F = XYZ + XYZ' + XY'Z + X'YZ + X'YZ' + XY'Z' + X'Y'Z'$
2. Karnaugh Map.

		XY			
		00	01	11	10
Z	0	1	1	1	1
	1	0	1	1	1

3. $F = Z' + Y + X$
4. Logic gate from Boolean function.



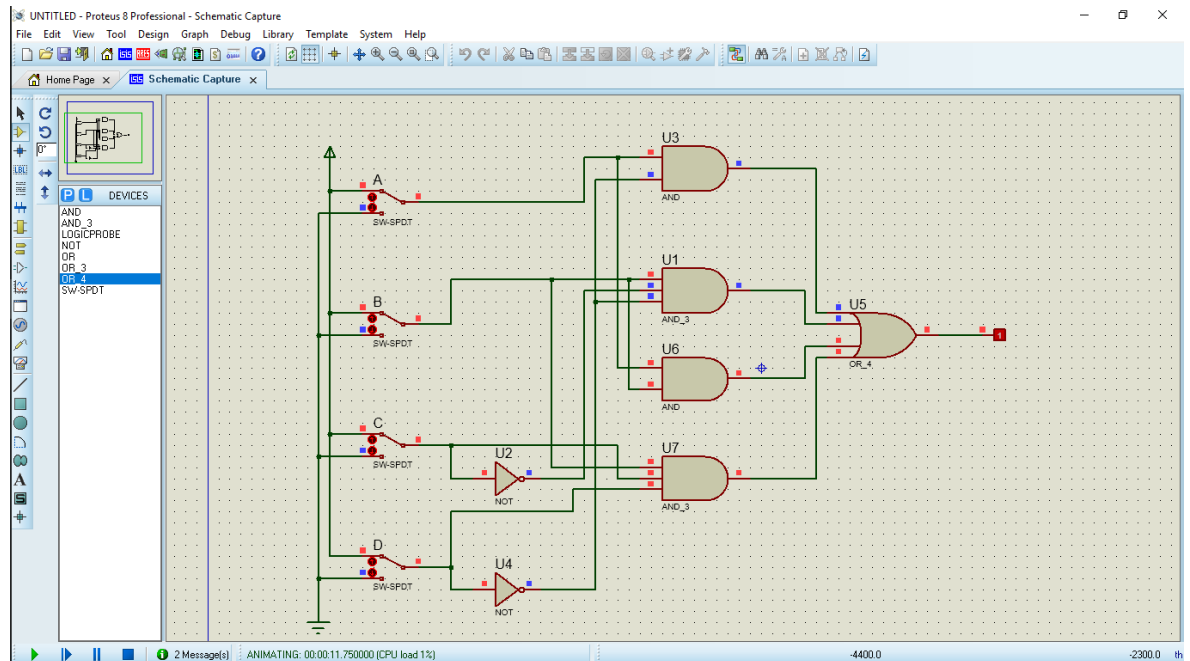
Test 4.

1. Karnaugh Map.

		AB			
		00	01	11	10
CD	00	0	0	0	0
	01	1	1	1	0
	11	0	1	1	1
	10	0	0	0	0

2. $F = AD' + BC'D' + AB + BCD$

3. Logic gate from Boolean function.



Test 5

1. Table of Boolean function

A	B	C	D	F
0	0	0	0	1
1	0	0	0	0
0	1	0	0	0
1	1	0	0	1
0	0	1	0	1
1	0	1	0	1
0	1	1	0	0
1	1	1	0	0
0	0	0	1	1
1	0	0	1	1
0	1	0	1	0
1	1	0	1	1
0	0	1	1	1
1	0	1	1	0
0	1	1	1	1
1	1	1	1	0

2. According of table Answer this karnaugh table.

		AB			
		00	01	11	10
CD	00	1	0	1	0
	01	1	0	1	1
	11	1	1	0	0
	10	1	0	0	1

3. Simplify Boolean function

$$F = (A'.B') + (A'.C.D) + (A.B.C') + (A.C'.D)$$

4.

